

AMENDMENTS

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising a plurality of activities comprising:
providing a solution comprising water and a dispersion of solid particles comprising a an internally crosslinked polymer comprising at least one hydrophobic substituent and at least one hydrophilic substituent; and
coating at least a portion of a surface of a plant with the solution.

2. – 14. (Canceled)

15. (Original) The method of claim 1, wherein the particles are nanoparticles.

16. (Original) The method of claim 1, wherein each of the particles has a molecular weight of from about 500,000 to about 50,000,000.

17. (Original) The method of claim 1, wherein the particles have an average diameter of from about 2 nanometers to about 1000 nanometers.

18. – 66. (Canceled)

67. (Currently Amended) A method comprising a plurality of activities comprising:
providing a solution comprising water and a dispersion of solid particles comprising a an internally crosslinked polymer comprising at least one hydrophobic substituent and at least one hydrophilic substituent;
coating at least a portion of a surface with the solution; and

preventing the formation of ice on the surface.

68. (Currently Amended) A method comprising a plurality of activities comprising:
polymerizing ~~the~~ at least one hydrophobic substituent and at least one hydrophilic
substituent to form solid nanoparticles having an average diameter of from about 11 nanometers
to about 450 nanometers, the nanoparticles comprising a-an internally crosslinked polymer
comprising the at least one hydrophobic substituent and the at least one hydrophilic substituent;
and

forming a solution comprising water and a dispersion of the solid nanoparticles.

69. (Original) A composition comprising:
an aqueous solution comprising a dispersion of solid particles comprising an internally
crosslinked polymer comprising at least one hydrophobic substituent and at least one
hydrophilic substituent.

70. (Currently Amended) A composition comprising:
water droplets comprising a dispersion of solid particles comprising an internally
crosslinked polymer comprising at least one hydrophobic substituent and at least one
hydrophilic substituent.

71. (Currently Amended) The composition of claim 6970, wherein the copolymer releases
heat over a range of dropping ambient temperatures beginning at about 40 degrees F.

72. (Currently Amended) The composition of claim 6970, wherein the hydrophilic
monomer is water soluble.

73. (Canceled)

74. (Currently Amended) The composition of claim 6970, wherein the particles are nanoparticles.

75. (Currently Amended) The composition of claim 6970, wherein each of the particles has a molecular weight of from about 500,000 to about 50,000,000.

76. (Currently Amended) The composition of claim 6970, wherein the particles have an average diameter of from about 2 microns to about 1000 microns.

77. – 81. (Canceled)

82. (Currently Amended) The composition of claim 6970, wherein the particles have an average diameter of less than about 200 microns.

83. (Currently Amended) The composition of claim 6970, wherein the water droplets are coated with a hydrated polymer gel.

84. (Currently Amended) The composition of claim 6970, wherein the water droplets are coated with a hydrated polymer gel that, when applied to at least a portion of a surface of a plant, releases heat over a range of dropping ambient temperatures beginning at about 35 degrees F.

85. (Currently Amended) A composition comprising:
a foam comprising an aqueous solution comprising a dispersion of solid particles

comprising an internally crosslinked polymer comprising at least one hydrophobic substituent and at least one hydrophilic substituent.

86. (Original) The composition of claim 85, wherein the foam comprises a hydrated polymer gel.

87. (Original) The composition of claim 85, wherein the foam comprises air bubbles.

88. (Original) The composition of claim 85, wherein the foam comprises air bubbles having a diameter in the range of from about 10 microns to about 100 microns.